



U.S. Department
of Transportation

**Research and
Special Programs
Administration**

JUN 12 2000

400 Seventh Street, S.W.
Washington, D.C. 20590

DOT-E 11516
(SEVENTH REVISION)

EXPIRATION DATE: March 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Falcon Safety Products, Inc.
Somerville, NJ

(See Appendix A of this document for a list of additional grantees)

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the transportation in commerce of certain DOT Specification 2Q containers containing difluoroethane or tetrafluoroethane and dimethylether mixtures. This exemption provides no relief from any Hazardous Materials Regulation (HMR) other than as specifically stated herein.

b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.304(a) only in that a DOT Specification 2Q container is not listed as authorized packaging; Part 172, subpart C unless transported by air; Part 172, subpart E unless transported by air; Part 172, subpart F; Part 174; and Part 177.
5. BASIS: This exemption is based on the application of Falcon Safety Products, Inc. dated May 30, 2000, in accordance with the provisions of § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Compressed gas, flammable, n.o.s./Tetrafluoroethane and Dimethylether mixtures (each chemical must make up at least 30% but no more than 70% of the contents)	2.1	UN1954	N/A
1,1-Difluoroethane, R152a	2.1	UN1030	N/A

7. PACKAGING AND SAFETY CONTROL MEASURES:

- a. PACKAGING - Packagings prescribed are DOT Specification 2Q containers not exceeding 667 ml capacity. Containers must be shipped as follows:
- (1) The maximum permitted filling density is 79 percent. In addition, the liquid portion of the gas must not completely fill the container at any temperature up to and including 130°F.
 - (2) The pressure in the container must not exceed 65 psig at 70°F and 180 psig at 130°F.
 - (3) The container must be capable of withstanding without bursting a pressure of one and one-half times the equilibrium pressure of the content at 130°F.
 - (4) The containers must be packed in strong outside packagings.
 - (5) Each package may not exceed 66 pounds gross weight.
- b. TESTING - Each completed container filled for shipment must have been heated until the pressure in the container is equivalent to the equilibrium pressure of the content at 130°F without evidence of leakage, distortion, or other defect.

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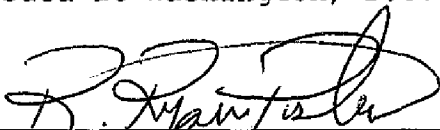
- c. OPERATIONAL CONTROLS - Shipments are not subject to the shipping paper requirements of subpart C of Part 172 unless offered for transportation by aircraft. Shipments are not subject to the labeling requirements of subpart E of Part 172 except when offered for transportation by air. The CARGO AIRCRAFT ONLY label must be printed or affixed to a surface (other than the bottom) of each package in proximity to the required marking and labeling on each package intended for transportation by air. Shipments are not subject to the placarding requirements of subpart F of Part 172, to Part 174 and to Part 177.
 - d. MARKING - All outer packages must be marked in accordance with the marking requirements of subpart D of Part 172 and "DOT-E 11516".
8. SPECIAL PROVISIONS:
- a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.
 - b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, and cargo aircraft only.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each aircraft used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
 - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incidents involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:



for Robert A. McGuire
Acting Associate Administrator for
Hazardous Materials Safety

JUN 12 2000
(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31

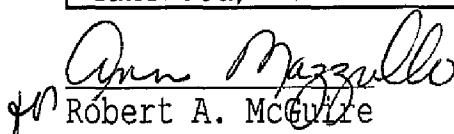
The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: TKang/CHHochman/alb

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

MAY 01 2001

Company Name City/State	Application Date	Issue Date	Expiration Date
Aerofil Technology, Inc. Sullivan, MO	7/24/2000	8/2/2000	3/31/2002
CRC Industries, Inc. Warminster, PA	6/15/2000	6/27/2000	3/31/2002
Cortec, Spray Technologies Division, Spooner, WI	9/05/2000	9/6/2000	3/31/2002
Ecotech Manufacturing Inc., Ft. Lauderdale, FL	3/23/2001	MAY 1 2001	3/31/2002
Hydrosol, Inc. Bridgeview, IL	5/25/2000	6/12/2000	3/31/2002
ORB Industries, Inc. Upland, PA	4/3/2000	4/24/2000	3/31/2002
Photoco, Incorporated Cleveland, OH	4/18/2000	4/28/2000	3/31/2002
LHB Industries (Lighthouse for the Blind) Berkeley, MO	8/14/2000	9/14/2000	3/31/2002
Shield Packaging of California, Inc. Chino, CA	4/27/2000	5/12/2000	3/31/2002
Green Tree Chemical Tech., Inc. Parlin, NJ	2/23/2001	3/8/2001	3/31/2002
Stoner, Inc. Quarryville, PA	3/15/2001	3/16/2001	3/31/2002
Environmental Materials Corporation Lakewood, NJ	4/9/2001	4/13/2001	3/31/2002


Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety